JC09 Rec'd PCT/PTO 30 SEP 2005.

SEQUENCE LISTING

<110> Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo

<120> Polypeptide

<130> W01006

<160> 47

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<211> 13

<212> PRT

<213> Artificial Sequence

<223> Peptide fragment of PAc at the positions of 365 to 377

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Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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<210> 2

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<223> Integrin binding motif

<400> 2

Arg Gly Asp

⟨210⟩ 3

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Arg Glu Asp

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Leu Asp Val

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Pro His Ser Arg Asn

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<210> 6

⟨211⟩ 3

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<400> 6

Arg Lys Lys

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<210> 7

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<400> 7

Asp Gly Glu Ala

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<400> 8

Tyr lie Gly Ser Arg

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<210> 9

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<212> PRT

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<400> 9

lle Lys Val Ala Val

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Arg Phe Tyr Val Val Met Trp Lys

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<400> 11

lle Arg Val Val Met

1

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⟨210⟩ 12

<211> 13

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<223> A mutated unit peptide

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Thr Tyr Glu Ala Aia Leu Lys Gln Tyr Gln Thr Glu Leu

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<210> 13

⟨211⟩ 13

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Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Thr Asp Leu

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<210> 14

<211> 13

<212> PRT

<213> Artificial Sequence

<223> A mutated unit peptide

<400> 14

Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Thr Ala Leu

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<210> 15

<211> 16

<212> PRT

<213> Artificial Sequence

<223> A mutated unit peptide **<400> 15** Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu Lys Gln Tyr 5 10 15 <210> 16 <211> 14 <212> PRT <213> Artificial Sequence <223> A mutated unit peptide <400> 16 Asn Glu Ala Asp Tyr Gln Ala Lys Leu Thr Ala Tyr Gln Thr 5 10 <210> 17 <211> 27 <212> PRT <213> Artificial Sequence <223> Unit peptide - PAc (305-318) <400> 17 Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu Asn Glu Ala 1 5 10 15 Asp Tyr Gln Ala Lys Leu Thr Ala Tyr Gln Thr 20 25 <210> 18

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Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu
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⟨211⟩ 20 ...
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Leu Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu Asp Arg Val
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Gin Lys Val Ala
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Gin Lys Val Ala Lys Lys Thr Tyr Giu Ala Ala Leu Lys Gin Tyr Giu

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20 25 30

Ala Asp Leu

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<212> PRT

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<400> 21

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1 5 10 15

Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu Asp Arg Val Gln

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Lys Val Ala

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<210> 22

<211> 28

<212> PRT

<213> Artificial Sequence

<223> Di unit peptide (UP-KK-UP)

<400> 22

Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu Lys Lys Thr

1 5 10 15

Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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<211> 3

<212> PRT

<213> Artificial Sequence

<223 Cadherin binding motif

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Asp Arg Glu

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<212> PRT

<213> Artificial Sequence

<223 Cadherin binding motif

<400> 24

Asp Glu Asp

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<210> 25

<211> 3

<212> PRT

<213> Artificial Sequence

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<400> 25

His Ala Val

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<210> 26

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<223 Cadherin binding motif

<400> 26

Arg Gly Asp Ser

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<210> 27

<211> 31

<212> PRT

<213> Artificial Sequence

<223> RGD-di unit peptide (DUP)

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Arg Gly Asp Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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<223> RED-di unit peptide (DUP)

<400> 28

Arg Glu Asp Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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<211> 33

<212> PRT

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<223> YIGSR-di unit peptide (DUP)

<400> 29

Tyr lie Gly Ser Arg Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala

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Asp Leu Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp

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Leu

<210> 30

<211> 31

<212> PRT

<213> Artificial Sequence

<223> DED-di unit peptide (DUP)

<400> 30

Asp Glu Asp Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

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<210> 31

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<212> PRT

(213) Artificial Sequence
(223) HAV-di unit peptide (DUP)
(400) 31
His Ala Val Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu
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Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu
20 25 30

<210> 32

<211> 38

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<213> Artificial Sequence

<223> RGD-OMP-KK-UP

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Arg Gly Asp Leu Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu

1 5 10 15

Asp Arg Val Gin Lys Val Ala Lys Lys Thr Tyr Giu Ala Ala Leu Lys

20 25 30

Gin Tyr Glu Ala Asp Leu

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<210> 33

<211> 38

<212> PRT

<213> Artificial Sequence

<223> OMP-RGD-KK-UP

<400> 33

Leu Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu Asp Arg Val

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Gin Lys Val Ala Arg Giy Asp Lys Lys Thr Tyr Giu Ala Ala Leu Lys
20 25 30

Gin Tyr Giu Ala Asp Leu
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<210> 34
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Leu Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu Asp Arg Val

Gin Lys Val Ala Lys Lys Arg Giy Asp Thr Tyr Giu Ala Ala Leu Lys

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Gln Tyr Glu Ala Asp Leu

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<210> 35

<400> 34

<211> 38

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Leu Ala Val Tyr Trp Glu Leu Leu Ala Lys Tyr Leu Leu Asp Arg Val

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Gin Lys Val Ala Lys Lys Thr Tyr Giu Ala Ala Leu Lys Gin Tyr Giu

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Ala Asp Leu Arg Gly Asp

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<210> 36

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<223> T1 peptide derived from HIV IIIB gp120

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Lys Gin lie lie Asn Met Trp Gin Ala Val Gly Lys Ala Met Tyr Ala

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<210> 37

<211> 14

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<213> Artificial Sequence

<223> OVAp derived from ovalbumin

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<210> 38

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GIn Lys Val Ala Lys Lys Ile Ser GIn Ala Val His Ala Ala His Ala

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25

30

Glu lle Asn Glu

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<210> 41

<211> 31

<212> PRT

<213> Artificial Sequence

<223> T1-KK-UP

<400> 41

Lys Gin lie lie Asn Met Trp Gin Ala Val Gly Lys Ala Met Tyr Ala

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10

15

Lys Lys Thr Tyr Glu Ala Ala Leu Lys Gln Tyr Glu Ala Asp Leu

20

25

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<210> 42

<211> 15

<212> PRT

<213> Artificial Sequence

 $\langle 223 \rangle$ gag protein at the position of 298-312

<400> 42

Lys Arg Trp lie lie Leu Gly Leu Asn Lys lie Val Arg Met Tyr

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<210> 43

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> V3 loop peptide of gp120 protein from HIV
<400> 44
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<210> 45
<211> 18
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<223> HA (hemaggrutinin) protein at the position of 91-108 from influenza virus
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Ser Leu
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<213> Artificial Sequence

<223> L2 protein from human papilloma

<400> 46

Leu Val Glu Glu Thr Ser Phe lle Asp Ala Gly Ala Pro

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<210> 47

<211> 16

<212> PRT

<213> Artificial Sequence

<223> A polypeptide for treating Japanese cedar pollinosis

<400> 47

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